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LIGNOSULFONIC ACID

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Featur

a chemical name, CAS Number, or molecular formula. Use * for partial names (i.e. chloro*)

58318-45-9, 8061-51-6, 8062-15-5, LIGNOSULFONIC ACID, LST 7, Lignin sulfonate, Ligninsulfonate, Ligninsulfonic acid, Lignosulfate, Lignosulfonate, Lignosulfuric acid, Poly (lignosulfonic acid), Protectol W, Sulfite lignin, 8062-15-5, AIDS-000665, AIDS000665, Ameribond 2X, Indulin SN, LS, LST 7, Lignosulfonate, Lignosulfonic acid, Poly(lignosulfonic acid), Protektol W, Sulfite lignin, Sulfolignin, Sulfonated lignin, Sulfonic acids, ligno, Sulfonyllignin, Wafex SR, 8062-15-5, AIDS-001469, AIDS001469, Ameribond 2X, Indulin SN, LST 7, Lignin, sulfite, Ligninsulfonate, Ligninsulfonic acid, Lignosulfate, Lignosulfonate, Lignosulfonic acid, Poly (lignosulfonic acid), Protektol W, Sulfite lignin, Sulfolignin, Sulfonic acids, ligno, Sulfonyllignin, Wafex SR

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Chemical Formula

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Conducting Polymers

Polyanilines

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Polyanilin	ie .	
53,067-0	(Leucoemeraldine base polyaniline; LEB) CAS No. 25233-30-1 C ₆ H ₈ N ₂ FW 108.1 Conducting polymer. Completely reduced form of polyaniline. solid	5 g

$$\left[- \hspace{-1em} \left[- \hspace{-1em} \left[$$

Polyaniline (emeraldine base)

(emeraldine base polyaniline) CAS No. 5612-44-2 C₁₂H₁₄N₄ FW 214.3

Conducting Polymer. Undoped form.

Solubility			
NMP	 		soluble
DMF			
THF			
m-cresol			
DMSO			
DMAC	 		soluble
	 	$\overline{}$	

55,645-9	Average M _w ~5,000	5 g
	mp approx. 277 °C (dec.)	25 g
	λ _{max}	
47,670-6	Average M _w ~10,000	10 g
47,070 0	solid	50 a
	mp 169 °C (dec.) (lit.)	
55,637-8	Average M _w ~20,000	5 g
	λ _{max}	25 g
55,638-6	Average M _w ~50,000	5 q
33,030 0	mp approx. 353 °C (dec.)	
	λ _{max}	
53.050.0	A BA CE 000	10 q
53,068-9	Average M _w ~65,000	_
	Conducting Polymer. Undoped form.	50 g
	solid mp	>350 °C (lit \
	mp	
57,637-9	Average M _w ~100,000	5 g
	Conductivity 1×10^{-9} S/cm (pressed pellet, ASTM F8)	,
	λ _{max}	324 nm
57 CA7 C		5 g
57,647-6	Average M _w ~300,000	25 g
		2J U

Polyaniline (emeraldine salt)

42,832-9	Average M _w >15,000, powder 5 g		
42,032-9	(Infusible), particle size 3-100 μm 25 g		
	Additive in polymer blends and liquid		
	dispersions for electromagnetic shielding, charge		
	dissipation, electrodes, batteries and sensors.		
	Form of polyaniline complexed (doped) with proprietary organic sulfonic acid		
	Inherently conductive polymer.		
	Stable at 100 °C and at 200 °C for short periods.		
	Dispersed particles tend to reaggregrate in molded articles		
	forming conductive pathways. Acidic salt of an		
	organicacid, incompatible with most bases.		
	surface area		
	Conductivity		
	mp		
	Density		
	Density		
57,707-3	coated on nylon powder 10 g		
37,707-3	Light colored conductive additive for		
	thermoplastics and thermosets.		
	•		
	Processible up to 150 °C		
	Solubility waterinsoluble		
	organic solvent insoluble		
	Extent of labeling		
	Conductivity		
	R: 37 S: 22-36		
53,056-5	composite with carbon black 5 g		
·	Inherently conducting polymer based 25 g		
	additive. Loading of polyaniline in carbon		
	black typically 20%. Bulk conductivity 40 S/cm. Stable up		
	to at least 300°C in air.		
	Conductive additive for thermoplastics and thermosets.		
	solid		

Polyaniline (emeraldine salt) long chain, grafted to lignin

contains proprietary organic sulfonic acid

CAS No. 335349-50-3 C₆H₈N₂ FW 108.1

Inherently conductive polymer. Redox active upto a pH of 9. Stable at 300°C for 30 mins. Insoluble in most solvents. Dispersible over a wide pH range in water and polar, protic organic solvents including isopropanol, DMSO, DMF, and NMP. Shake well before use.

org Sha con	anic solvents including isopropanol, DMSO, DMF, and NMP. ike well before use. itains ligno-sulfonic acid and para-toluene sulfonic acid as pant	a-aldrich.
56,111-8	approx. 20 wt. % in water, dispersion 10 g Particle size approx. 2-3 μm 50 g pH	g: www.sigma-
56,113-4	powder 2 g Particle size. 2-3 μm 10 g pH. 1.9 (5 wt. % in water) Conductivity.	Ordering/Pricing

Conducting Polymers

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Polyanilines

Polyaniline (emeraldine salt) short chain, grafted to lignin

CAS No. 313949-90-5 C₆H₈N₂ FW 108.1

Inherently conductive polymer. Redox active upto a pH of 9. Stable at 300 °C for 30 mins. Insoluble in most solvents. Dispersible over a wide pH range in water and polar, protic organic solvents including isopropanol, DMSO, DMF, and NMP. Shake well before use.

contains ligno-sulfonic acid as dopant

56,109-6	approx. 20 wt. % in water, dispersion	 n. 10 g
	contains ligno-sulfonic acid as dopant	50 g
	particle size approx. 2-3 μ	ım
	pH approx. 2.3 ((5 wt. % in water
	Conductivity	.approx. 1-2 S/cn
	R: 37/38-41 S: 26-36	
		<i></i>
56,112-6	powder	2 g
	Particle size	m 10 a
	pH 1.95 (5 wt. % in water	
	Conductivity	1-2 S/cm
	R: 37/38-41 S: 22-26-36	

Poly(anilinesulfonic acid) solution

52,328-3 CAS No. 167860-86-8 50 mL Average Mn 10,000 by GPC, polyethylene oxide, 5 wt. % in water Self-doped, conducting polymer. . 0.2-0.01 S/cm Solubility water. . . Extent of labeling. ~100% degree of sulfonation

Polyanilines: Dopants

Dinonylnaphthalenedisulfonic acid solution

52,298-8	(DNNDSA) CAS No. 60223-95-2	100 mL
	55 wt. % in isobutanol Dopant for conducting polymer for amino cross-linked coating:	, .
	liquid nZO bp. Fp. Solubility	101 °C/760 mm Hg (lit.
	alcohols, glycol ethers, glycols, es aliphatic hydrocarbons	soluble insoluble
	Density	
	S S (SO ₃	H) ₂

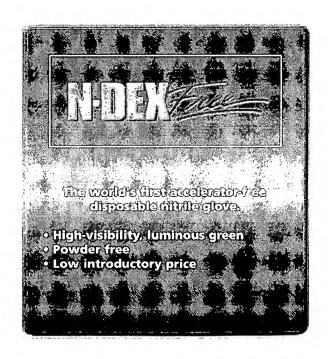
Dinonylnaphthalenesulfonic acid solution

52,296-1 (DNNSA) 100 mL CAS No. 25322-17-2 C₂₈H₄₄O₃S FW 460.7 50 wt. % in heptane Dopant for conducting polymers hydrophobic acid catalyst for amino cross-linked coatings alcohols, glycol ethers, glycols, esters, ketones, aromatic and aliphatic hydrocarbons..... soluble 0.852 g/mL (lit.) R: 10-37/38-41-51/53-65-67 S: 26-39-60-61-62

Dodecylbenzenesulfonic acid solution

CAS No. 27176-87-0 52,295-3 500 mL 70 wt. % in 2-propanol Dopant for conducting polymers strong acid catalyst for amino cross-linked coatings Solubility water, alcohols, glycol ethers, glycols, esters, ketones, aromatic and aliphatic hydrocarbons. soluble R: 10-22-34 S: 16-26-36/37/39-45





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